

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,605	07/11/2003	Larry Pearlstein	HA-59APPCON	2905
26479 7590 06/04/2007 STRAUB & POKOTYLO			EXAMINER	
620 TINTON A			VO, TUNG T	
BLDG. B, 2ND FLOOR TINTON FALLS, NJ 07724		•	ART UNIT	PAPER NUMBER
			2621	
			MAIL DATE	DELIVERY MODE
			06/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/617,605	PEARLSTEIN, LARRY				
Office Action Summary	Examiner	Art Unit				
	Tung Vo	2621				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 12 Se	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE and a date of this communication, even if timely filed	the mailing date of this communication. O (35 U.S.C. § 133).				
· _ · ·	· · · · · · · · · · · · · · · · · · ·					
· <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
• • • • • • • • • • • • • • • • • • • •	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 23-39 is/are pending in the application 4a) Of the above claim(s) 1-22 is/are withdrawn 5) Claim(s) is/are allowed. 6) Claim(s) 23-39 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	n from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 11: July 2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	☑ accepted or b)☐ objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 07/11/2003. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

Application/Control Number: 10/617,605 Page 2

Art Unit: 2621

DETAILED ACTION

Claims

1. Claims 1-22 have been canceled. Claims 33-39 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 23-33 are rejected under 35 U.S.C. 102(b) as being anticipated by De With et al. (US 5,530,481).

Re claims 23 and 28, De With discloses a video processing device (fig. 2) for carrying out a video processing method comprising the steps of: receiving encoded video data representing a series of images (2 and 30 of fig. 2; the demultiplexer receives the encoded video data), said encoded video data having been encoded using motion compensated prediction (19 or 32 of fig. 2, the same motion compensation is used in the encoder and decoder, see also fig. 2) on at least some of the images being encoded (14 of fig. 2), each encoded image in said series of images including a first contiguous image area and a second contiguous image area (figs. 6A-6D), each of said first and second contiguous image areas being smaller than a full area of an image in said series of images, motion vectors for the first contiguous image areas using for

Art Unit: 2621

predictions only pixels within first contiguous image areas (fig. 6B; col. 4, lines 58-67), said first contiguous image areas being located at the same location in each of said series of images (figs. 6A and 6B); and a decoder (30-36 of fig. 2) for decoding said received encoded video data.

Re claims 24, 29, De With further discloses a display for displaying images corresponding to the decoded received encoded video data (fig. 4, Note FIG. 4 shows a scanning sequence which has been found to be useful for video recorders because it yields an acceptable picture quality upon fast display, this suggests that the system inherently has a display).

Re claim 25, De With further discloses wherein the received encoded image data further includes motion vectors for the second contiguous image areas, the motion vectors for the second contiguous image area using for predictions only pixels within second contiguous image areas of said series of images (fig. 6C, col. 5, lines 1-10).

Re claim 26, De With further discloses wherein the encoded image data includes information identifying areas of the images in said series of images to which motion compensated prediction was separately applied (fig. 6B and 6C)

Re claim 27, De With further discloses wherein said at least one image is a frame (fig. 2).

Re claim 30, De With discloses a method (fig. 2) of processing video data comprising the steps of: receiving encoded video data representing a series of images (2 and 20 of fig. 2, Note demultiplexer receives a compressed or encoded signals that comprises a series of images or pictures), said encoded video data having been encoded using motion compensated prediction on at least some of the images being encoded (19 of fig. 2), each image including first and second contiguous image areas (figs. 6A-6D), said first and second image areas being in the same location in each image in the series of images (col. 3, lines 13-18), motion vectors (col. 3, lines

16-18) for the first image areas (fig. 6A) using for predictions only pixels of first image areas (col. 3, lines 29-38), encoded image data (14 of fig. 2, Noted coding a second image area based on the prediction) corresponding to a second image area of at least one of said images including insert image data (17 of fig. 2, Note image data is added to the encoded video data) that was added to said encoded video data after initial encoding of said at least one of said images (16 and 17 of fig. 2); and decoding said received encoded video data (30-36 of fig. 2).

Re claim 31, De With further discloses displaying images corresponding to the decoded received encoded video data (fig. 4).

Re claim 32, De With further discloses wherein the encoded image data includes information identifying areas of the images in said series of images to which motion compensated predictions were separately applied (figs. 6A-6D).

Re claim 33, De With further discloses wherein each image in said series of images is a frame (fig. 2).

2. Claims 34-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Xia et al. (US 6,014,466).

Re claim 34, Xia discloses a method of processing video data (fig. 11) comprising the steps of: receiving encoded video (MPEG-2 encoder for encoding first and second frame) data representing a second image that was encoded as a function of a first image (112 of fig. 11, see also fig. 12, Note encoding video signal based on frame to frame), the first and second images each including a first and a second non-overlapping image segments (104 of fig. 11, Note there each image is segmented into object; 62 and 64 of fig. 7, see also fig. 3), each of the first and

Application/Control Number: 10/617,605

second non-overlapping image segments including a plurality of vertically contiguous pixels (col. 1, lines 14-23), the first non-overlapping image segment (object 38 of fig. 3) occurring in the same location in each of the first and second images (MPEG-2 encoding an image data based on the comparison of the first and second images, wherein the object 38 segment is the same location in both images by motion compensation (126 of fig. 12), Before the object can be encoded, its frame-to-frame motion must be compensated for (step 126 of fig. 12)), said encoded video data representing the second image using as reference data from the first image, only image data (figs. 8 and 9) corresponding to the first image segment (fig. 5) of the first image (34 of fig. 3), for motion vectors (126 of fig. 12) representing a portion of the first image segment of the second image and using as reference data from the first image (126 and 128 of fig. 12), image data corresponding to the second image segment of the first image (col. 12, lines 34-43), for motion vectors representing a portion of the second image segment of the second image (126 of fig. 12); and decoding said received encoded video data (114 of fig. 11).

Re claim 35, Xia further discloses displaying the decoded video data (118 of fig. 11)

Re claim 36, Xia further discloses wherein the received encoded video data representing the second image was also encoded as a function of a third image in addition to the first image, the received encoded video data using as reference data from the third image, only image data corresponding to a first image segment of the third image, for motion vectors representing a portion of the first image segment of the second image (fig. 12).

Re claim 37, Xia further discloses wherein said received encoded video data further uses as reference data from the third image, image data corresponding to the second image segment of

Application/Control Number: 10/617,605 Page 6

Art Unit: 2621

the third image, for motion vectors representing a portion of the second image segment of the second image (MPEG-2 encoder, fig. 12)

Re claim 38, Xia further discloses wherein the first and second image regions of the second image represented by the received encoded image data were encoded using independent non-overlapping sets of reference data for motion compensated prediction purposes, said received encoded image data including information identifying each of the image segments which is independently encoded using motion compensated prediction techniques (114 of fig. 11)

Re claim 39, Xia further discloses wherein said first and second images are frames (frame to frame encoding, fig. 12).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nieweglowshi et al. (US 6,272,178) discloses video encoder and decoder.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung Vo whose telephone number is 571-272-7340. The examiner can normally be reached on Monday-Friday.

Application/Control Number: 10/617,605 Page 7

Art Unit: 2621

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner Art Unit 2621